

1 GAATTCCGGCGGAGAGAAGTCACACTGCCCTGGCTTACCTTGAAGTGGTTCTCAGGGTGGGGACGGAGATGC
 101 AGCTCTATCCTGTGCCCTGGTCAGCAGGGCAGCCCAGGCTTCGCGTACTTGGCCTATGAGCTCAGGTCTAGGCCAG
 201 CAGAGGGCACCTGGCAACTCGGACTCGGGCTGGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
 301 GCGGGGGCACCTGAAGGGGAACCAACAGGGAGGGAGGACGGACGGAGGGAAAGGGGGGGGGGGGGGGGGGGGG
 401 GCGGGGGTGGGGGGCTCCTGGCTGGGTGACTCGTAGGGCCACTCGTAGGGGGCAGGGTGTGACTGTGGGGGG
 9 A A V A A L L V L L G A R I Q G T R S P R C D C A G D F H K K
 501 AGATGGTCTGTTGCGAGGGCTGCCAGGGCAACTACCTGAAGGGCCCTTGCAACGGGGAACTCCACCTGCCCTGG
 43 I G L F C C R G C P A G H Y L K A P C T E P C G N S T C L V C P Q
 601 AGACACCTTCTGGCCTGGAGAACCAACATAATTCTGAATGTCGCCAGGCCCTGTGATGAGCAAGGCCAACGTTCA
 76 D T F L A W E N H H N S E C A R C Q A C D E Q A S Q V A L E N C S
 701 GCAGTGGCGACACCCGCTGGCTTAAGCCAGGGCTGGGACTGCCAATGTCAGGAGTTACACTGCCAACCATGCC
 109 A V A D T R C G C K P G W F V E C Q V S Q C V S S P F Y C Q P C L
 801 TAGACTGGGGCCCTGCAACACACGGCTACTCTGTTCCCGCAGAGATACTGACTGTGGGACCTGGCTGGGATGG
 143 D C G A L H R T D C S R R L C G T C L P G F Y E H G D G
 901 CTGGCGTCTGGCCACGTAATTCCCTAGCTGGATGGAGGGAGGGAGGGAGGGCTGGGCTGGCTGGCTGG
 176 C V S C P T
 1001 CAGGAATAGGAAGGGATAAGGGAGCCACACACGGCTACTCTGTTCCCGCAGAGATACTGACTGTGGGACCTGG
 1101 GCCTTAGCCAGATAACATAAGGGTATTGCTTCACTTGCCTTAGCCAGGATCCTAGCCAGATATTACAGATGATT
 1201 GAGTCACATGATATAAGCTTAAACTGGCTGAAGGAGGTTGAGGCTATGATCGCCACTGCACCTGCTGG
 1301 ACCTATTAAATA
 1401 TAGTCTAGGGATCTGGCAAGTGCAGAGAATT

1

FIG.

hAPO2LI	34	D C A G D - - -	F H K K I G L F C C R G C P A G H Y L K A P C T E P C G N S T C L
hTNFR1	43	V C P Q G K - - -	Y I H P Q N N S I C C T K C H K G T Y L Y N D C P G P G Q D T D C R
hTNFR2	39	T C R L R E - - -	Y Y D Q T A Q M C C S K C S P G Q H A K V F C T K T - S D T V C D
hTNFRup	42	T C R D Q E K E - - -	Y Y E P Q H A R I C C S R C P P G T Y V S A K C S R I - R D T V C A
hFAS/Ap01	48	N L E G L - - -	N L E G L - - -
hLNGFR	31	A C P T G - - -	LY T H S G E C C K A C N L G E G V A Q P C G A - - N Q T V C E
hCD40	25	A C A E K - - -	Q Y L I N S Q C C S L C Q P G Q K L V S D C T E F - T E T E C L
hCD27	26	S C P E R - - -	H Y W A Q G K L C C Q M C E P G T F L V K D C D Q H R K A A Q C D
hCD30	28	T C H G N P S H - - -	Y Y D K A V R R C C Y R C P M G L F P T Q Q C P Q R - - P T D C R K
HOX40	30	H C V G D T - - -	Y P S N D R C C H E C R P G N G M V S R C S R S - Q N T V C R

hAPO2LI	72	V C P Q D - T F L A W E N H H S E C A R C - Q A C D E Q A S Q V A L E N C S A V A D T R C G - - -
hTNFR1	83	E C E S G - S F T A S E N H L R H C L S C - S K C R K E M G Q V E I S S C T V D R D T V C G - - -
hTNFR2	77	S C E D S T Y T Q L W N W V - P E C L S C G S R C S S - - D Q V E T Q A C T R E Q N R I C T - - -
hTNFRup	82	T C A E N S Y N E H W N Y L - T I C Q L C - R P C D P V M G L E E I A P C T S K R K T Q C R - - -
hFAS/Ap01	84	P C Q E G K E Y T D K A H F S S K C R R C - R L C D E G H G L E V E I N C T R T Q N T K C R - - -
hLNGFR	66	P C L D S V T F S D V V S A T E P C K P C - T E C V G L - - Q S M S A P C V E A D D A V C R - - -
hCD40	61	P C G E S E F L D T W N R E - T H C H Q H - K Y C D P N L G L R V Q Q K G T S E T D T I C T - - -
hCD27	64	P C I P G V S F S P D H H T R P H C E S C - R H C N S G L L V R - - N C T I T A N A E C A - - -
hCD30	68	O C E P D - Y Y L D E A D R - - C T A C - V T C S R D D L V E K T - P C A W N S S R V C E - - -
HOX40	66	P C G P G - F Y N D V V S S K P - C K P C - T W C N L R S G S E R K Q L C T A T Q D T V C R - - -

FIG. 2A

FIG. 2B

hAPO2LI	116	C K P G W F V E C Q V S O C V S S S P F Y C	COPCL DCG - T
hTNFR1	127	C R K N Q Y R H Y W S E N L - - -	F Q C F N C S I L C L N G - - T V H L S C Q E K Q N T V C - - T
hTNFR2	120	C R P G W Y C A L S K Q E G C - - -	R L C A P L R K C R P G - - F G V A R P G T E T S D V V C K - P
hTNFRP	126	C Q P G M F C A A W A L E C - - -	T H C E L L S D C P P G T E A E L K D E V G K G N N H C V - P
hFAS/Apo1	129	C K P N F F - C N S T V C - - -	E H C D P C T K C E H G I - - - I K E C T L T S N T K C K -
hLNGFR	109	C A Y G Y Q D E T T - - -	G R C E A C R V C E A G S G L - V F S C Q D K Q N T V C E - E
hCD40	105	C E E G W H C T S E A C - - -	E S C C V L H R S C S P G F G - V K Q I A T G V S D T I C E - P
hCD27	106	C R N G W Q C R D K E C - - -	T E C C D P L P N P S L T A R S S Q A L S P H P Q P T H L P -
hCD30	108	- C R P G M F C S T S A V N S C - - -	A R C F F H S V C P A G M I V K F P G T A Q K - N T V C E -
HOX40	109	- C R A G T Q P L D S Y K P G - - -	V D C A - - - - - - - - -
hAPO2LI	164	C L P G F Y E H G D - - -	G C V S S C P T
hTNFR1	168	C H A G F F L R E N - - -	E C V S C S N C K K - - - S L E C T K - - - L C L
hTNFR2	164	C A P G T F S N T T S S T D I C R P H Q I C N V V A I P G N A S M - - -	D A V C T
hTNFRP	170	C K A G H F Q N T S S P S A R C Q P H T R C E N Q G L V E A A P G T A Q S D T T C K	D T T C K
hLNGFR	149	C P D G T Y S D E A N H V D P C L P C T V C E D T E R Q L R E C T R W - A D A E C E	D V V C G
hCD40	146	C P V G F F S N V S S A F E K C H P W T S C E T K D L V V Q Q A G T N K T D V V C G	D V V C G
HOX40	127	P C P P G H F S P G D - - N Q A C K P W T N C T L A G K H T L Q P A S N S D A I C E	

1081	GGCCCCGAG	CTCTACGACG	TGATGGACCC	GGTCCCCAGCG	GGCCGCCAGGA	AGGAGTTCTGT
332	G P Q L Y D	V M D A V P A R R W K E F V				
1141	<u>GGCCACGGCTG</u>	<u>GGGCTGCGCG</u>	<u>AGGCAGAGAT</u>	<u>CGAAGCCGTC</u>	<u>CACCTGGAGA</u>	<u>TCGGCCGCTT</u>
352	R T L G L R E	A E I E A V E V E I G R F				
1201	<u>CCGAGACCAAG</u>	<u>CAGTACGAGA</u>	<u>TGCTCAAGCG</u>	<u>CTGGCCCGCAG</u>	<u>CAGCAGCCCCG</u>	<u>CGGGCCCTCGG</u>
372	R D Q Q Y E M L K R W R Q Q P A G L G					
1261	<u>AGCCCGTTAC</u>	<u>GGGCCCTGG</u>	<u>AGGCCATGG</u>	<u>GCTGGACGGC</u>	<u>TGCCCTGGAAAG</u>	<u>ACTTGCCGAG</u>
392	A V Y A A L E R M C L D G C V E D L R S					
1321	<u>CCGCCTGGAG</u>	<u>CGGGCCCGT</u>	<u>GACACGGCC</u>	<u>CCACTTGCCA</u>	<u>CCTAGCCGCT</u>	<u>CTGGTGGCCC</u>
412	R L Q R G P					
1381	TTGCAGAAC	CCTTAAGTACG	CTTACTTATG	CCTGTAGACA	TTTTATGTCA	CTTATTAAAGC
1441	CCCTGGCACG	GCCCTGGCTA	GCAGCACCAAG	CCGGCCCCAC	CCCTGGCTCGC	CCCTATCCGCT
1501	CCAGCCAAAGC	CGAAGAACCA	CGAACGAAATG	TCGAGAGGGC	CTGAAGACAT	TTCTCAACTT
1561	CTCGCCGGA	GTITGCCGTA	GATGCCGTA	TTAAATCTGT	GAAAGAAC	AAAAAAA
1621	AAAAAAA	AAAAA				

FIG. 4C

541 ACGGCTACTC TGTTCCCGCA GAGATACTGA CTGCTGGGACCC TGCCTGCCTG GCTTCTATGA
 152 R L L C S R R D T D C G T C L P G F Y E

 601 ACATGGCAT GGCTGGGT CCTGCCAAC GAGCACCCAC GGGAGCTGTC CAGAGCGCTG
 172 H G D G C V S C P T S T L G S C P E R C

 661 TGCCGCTGTC TGTGGCTGA CGCAGATGTT CTGGGTCCAG GTGCTCCTGG CTGGCCTTGT
 192 A A V C G W R Q M F W V Q V L I A G L V

 721 GGTCCCCTC CTGCTTGGG CCACCTGAC CTACACATACT CCCACACTGCT CCCCTCACAA
 212 Y P L L I G A T L T Y T Y R H C W P H K

 781 GCCCCTGCTT ACTGCAGATG AAGCTGGAT GGAGGCTCTG ACCCCACAC CGGCCACCCA
 232 P L V T [A] D E A G M E A L T P P P A T H

 841 TCTGTCACCC TTGGACAGCG CCCACACCCT TCTAGCACCT CCTGACAGCA GTGAGAAGAT
 252 L S P L D S A H T L L A P P D S S E K I

 901 CTGCACCGTC CAGTTGGTG GAAACAGCTG GACCCCTGGC TACCCGAGA CCCAGGAGGC
 272 C T V Q L V G N S W T P G Y P E T Q E A

 961 GCTCTGGCG CAGGTGACAT GGTCCCTGGCA CCAGTGGCC AGCAGAGCTC TTGGCCCCGC
 292 L C P Q V T W S W D Q L P S R A L G P A

 1021 TGCTGGCCC ACACCTCTCGC CAGAGTCCCC AGCCGGCTCG CCAGCCATGA TGCTGGCAGCC
 312 A A P T L S P E S P A G S P A M M L Q P

FIG. 4B

1 CGGGCCCTGC GGGCGGGG CTGAACGGG AACCAACGAGC GGCAGAGAGC ACGGAGCCGG
 61 GAACCCCCTG GGGCCCCGTC GAGGGCTAT GGAGCAGGG CCGGGGGCT GGGGGGGGT
 1 M E O R P R G C A A V

121 GGGGGCGG CCTCCCTGG TGCTGCTGGG GGGCGGCC CAGGGCGCA CTCGTAGCCC
 12 A A L L L V L L G A R A Q G G T R S P

181 CAGGTGTGAC TGTGCCGGTG ACTTCCACAA GAAGATGCT CTGTTTGTG GCAGAGGGCTG
 32 R C D C A G D F H K I G L F C C R G C

241 CCCAGGGGG CACTACCTGA AGGGCCCTTG CACGGAGCCC TGCGGCAACT CCACCTGCCT
 52 P A G H Y L K A P C T E P C G N S T C L *

301 TGTCTCTCCC CAAGACACCT TCTTGGCCTG GGAGAACCAC CATAATTCTG AATGTGCCCG
 72 V C P Q D T F L A W E N H H N S E C A R

361 CTGCCAGGCC TGTGATGAGC AGGCCCTCCA CGTGGGCTG GAGAACTGTT CAGCACTGCC
 92 C Q A C D E Q A S Q V A L E N C S A V A *

421 CGACACCCGC TGTGGCTTA AGCCAGGGCTG GTTTGGAG TGCCAGGTCA GCCAATGTGT
 112 D T R C G C K P G W F V E C Q V S Q C V

481 CAGCAGTCA CCCTCTACT GCCAACCATG CCTAGACTGC GGGCCCTGC ACCGCCACAC
 132 S S S P F Y C Q P C L D C G A L H R H T

FIG. 4A

FIG. 5

Apo3	1	M E Q R P R G C A A V A A I L L V I L L G A R A Q G C T R S P R - - - - -
TNFR1	1	M G L S T V P D L I L L P L - V V L L E L L V G I Y P S G V I G L V P H E [REKRDSSV]
Fas/Apo1	1	M L G I W T I L L P L V I L T S V A R I S S V N A Q V T D I N S K G E E I L E K T V T V
Apo3	3 3	C D C A G D F H K K I G L F C C P A G H Y L K A P C T E P C C N S T C L V
TNFR1	4 4	C P Q G K Y T H P Q N N S T C C T K C H K G T Y L Y N D C P G P G Q D T D C R E
Fas/Apo1	4 5	E T Q N L E G L H H D G Q F C H K P C P P G E R K A R D C T V N G D E P D C V P
Apo3	7 3	C P Q D T F L A W E N H H N S E C A R C Q A C D E Q A S Q V A L E N C S A V A D T R C G
TNFR1	8 5	C E S G F T A S E N H L R H - C L S C S K C R K E M G Q V E I S S C T V D R D T V C G
Fas/Apo1	8 5	C Q E G K E Y T D K A H F S S K C R C R L C D E C H G L E V E I N C T R T Q N T K C R
Apo3	1 1 7	C K P G W F V E C Q V S S S P F Y C Q P C I D C G A L H R H T R I L L C S R R D - T D C G T
TNFR1	1 2 7	C R K N Q Y R H Y W S E N L F Q - - - - - C F N C S L C L N G T V H L S - - C Q E K Q N T V C T -
Fas/Apo1	1 2 9	C K P N F E - - C N S T V C E H - - - - - C D P C T K C E H G I K E - - - C T L T S N T K C K E
Apo3	1 6 5	C L P G F Y E H G D G C V S C P T S T L G S C P - - E R C A A V C G W
TNFR1	1 6 8	C H A G F F L R E N E C V S C S - - - - - N C K K S L E C T K L C L P

FIG. 6

Apo3	3 3 8	V M D A V P A R R W K E F V R T I G L R E A E T E A V E V E T I G R - - F R D Q Q Y E
TNFR1	3 3 3	V V E N V P P L R W K E F V R T I G L S D H E I D R L E L Q N G R - C L R E A Q Y S
Fas/Apo1	2 2 0	I A G V M T L S Q V K N G V N E A K I D E I K N D N V Q D T A E Q K V - Q
FADD	1 0 4	I C D N V G K - D W R R L A R Q L K V S D T K I D S I E D R Y P R N - I T T E V R E
TRADD	2 1 1	N R P L S L K - D Q Q T F A R S V G L K W R K V G R - S L Q R G C R A L R D P A L D
RIP	2 9 1	I R E N L G K - H W K N C A R K L G F T Q S A I D E I D H D Y E R D G L K E K V Y Q
Reaper	1	M A V A F Y I P D Q A T L L R E A E Q K E Q Q I L R - L R E S Q W R
Apo3	3 7 8	M L K P W R Q Q O P - - A G L G A V Y A A L E R M G L - D G C V E D I L R S
TNFR1	3 7 4	M L A T W R R R T P R E A T E L L G R V L R D M D L - L G C L E D I T E
Fas/Apo1	2 6 1	M L R N W H Q L H G - K K E A Y D T I K D L K K A N E - E K T I Q T
FADD	1 4 4	L L R I W K N T E - K E N A T V A H L V G A L R S C - - Q M N L V A D L V
TRADD	2 5 1	S L A Y E Y E R E G I L Y E Q A F Q L L R R F V - Q A E G R A A T E Q R I V E
RIP	3 3 2	M L Q K W V M R E G I K G A T V C K L A Q A L H Q C - - S R I D L L S S L T
Reaper	3 4	F L A T V V L E T L K Q Y T S C H P K T G R K S C K Y R K P

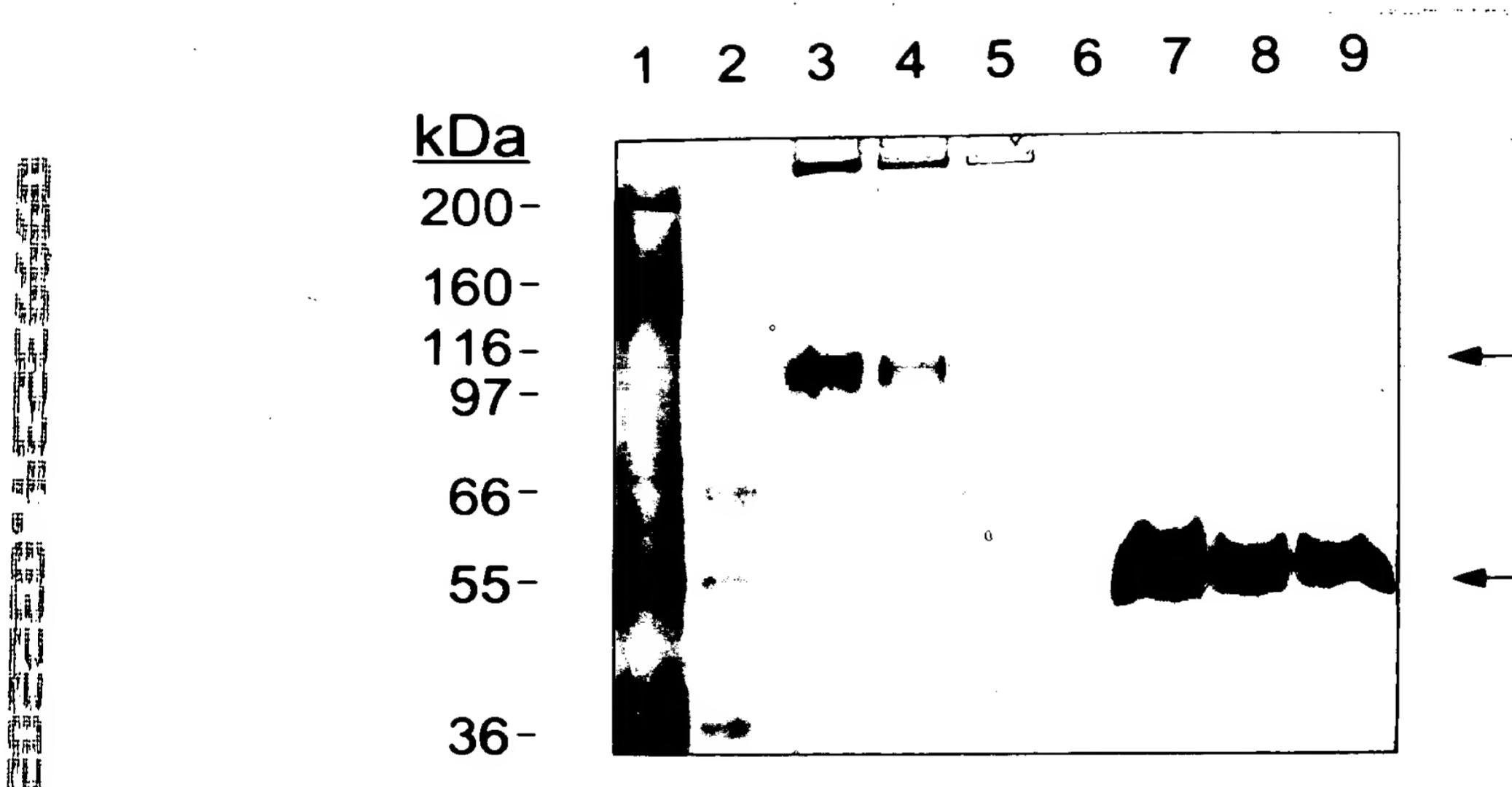


FIG. 3

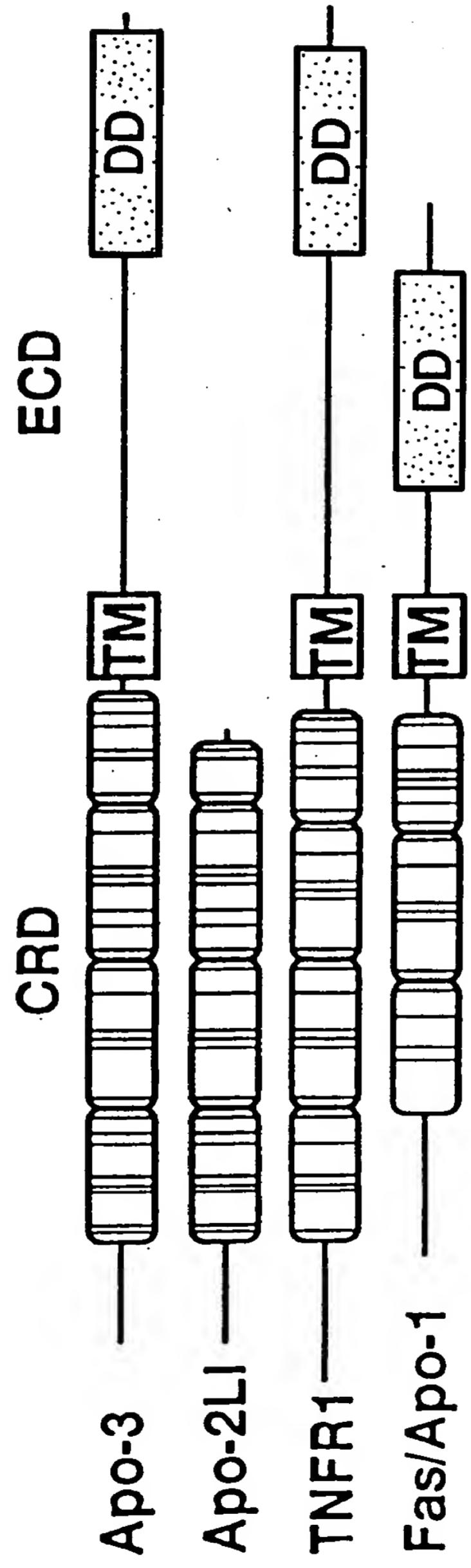
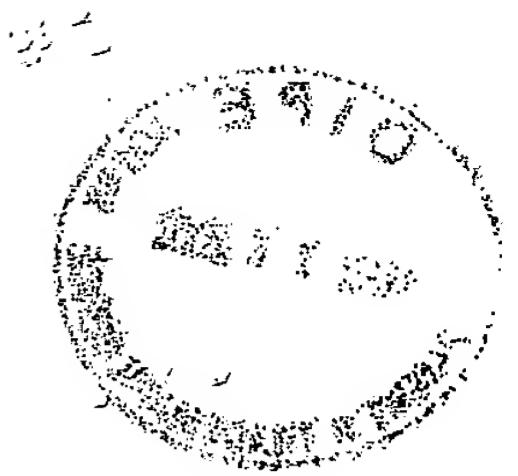
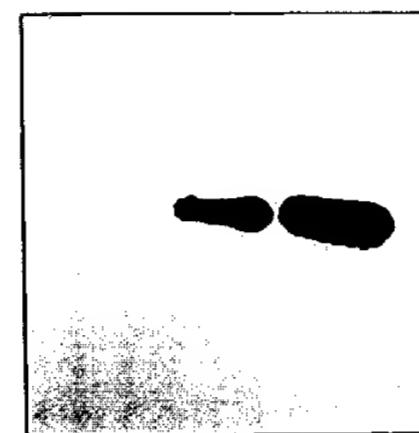


FIG. 7



Transfection

PRK5 TNFR1 Apo-3



◀ **Phospho-C-Jun**

FIG. 11

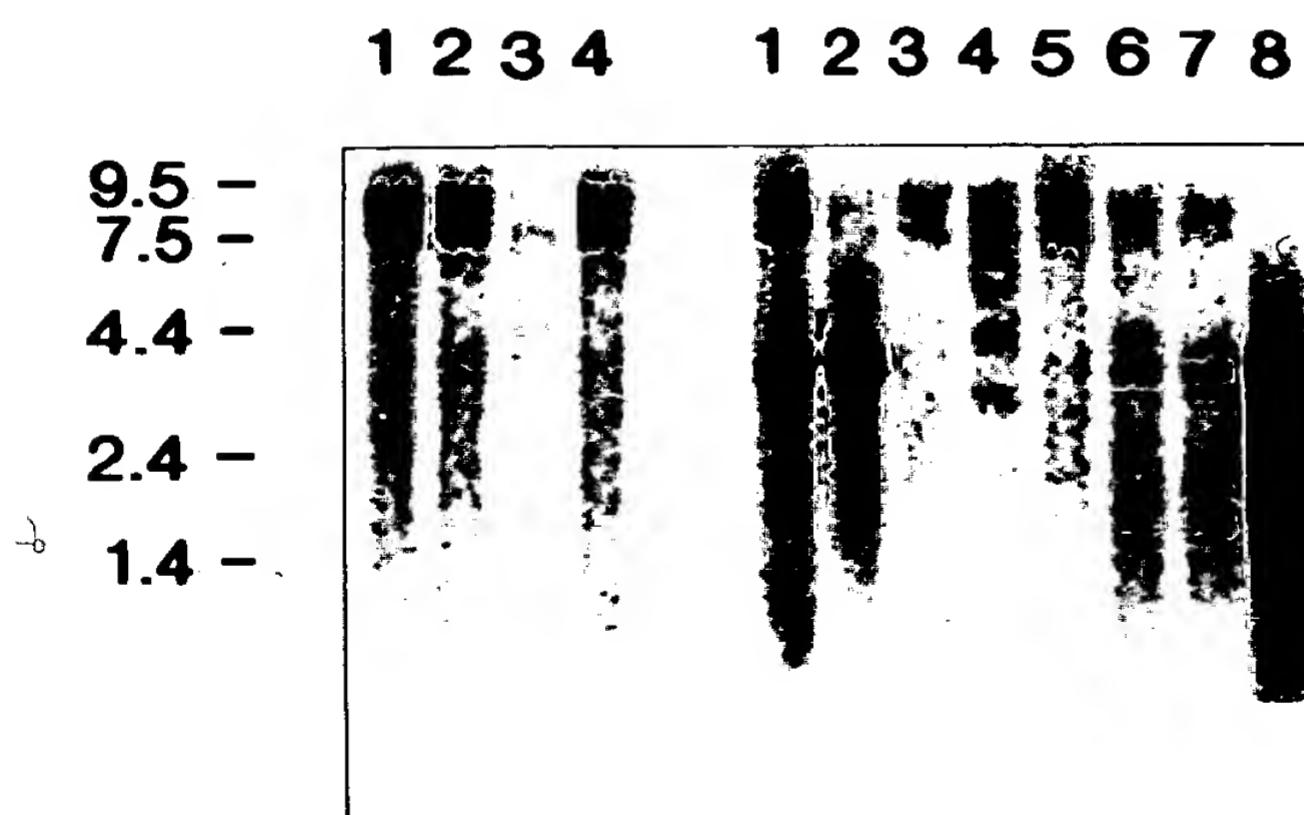


FIG. 12



1 2 3

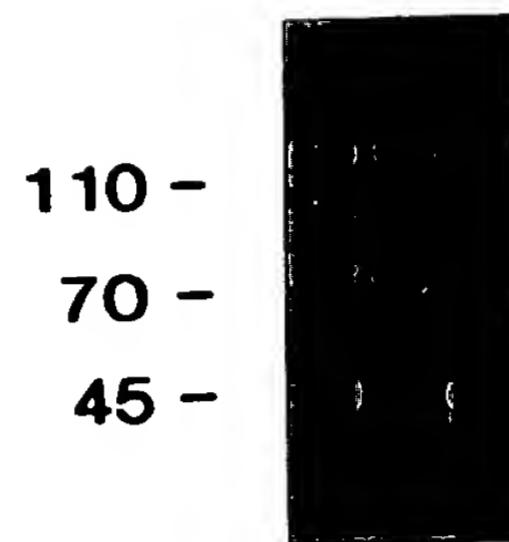


FIG. 8

1 2 3 4 5 6 7 8 9

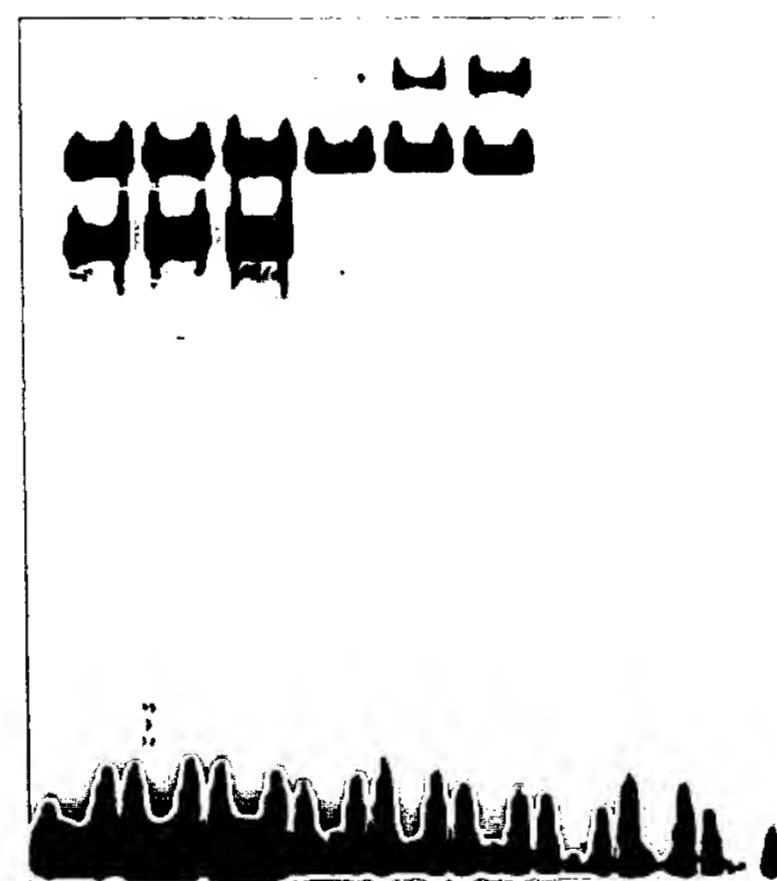


FIG. 10

FIG. 9A



FIG. 9C

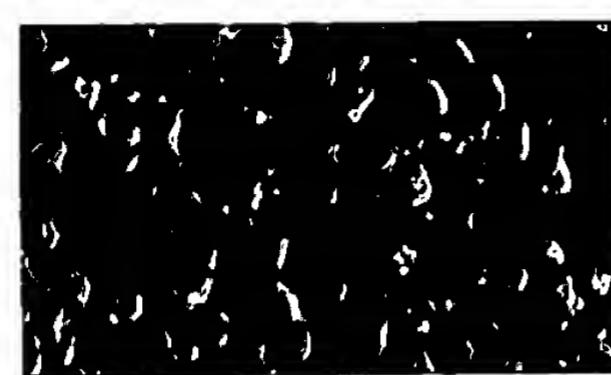


FIG. 9B



FIG. 9D

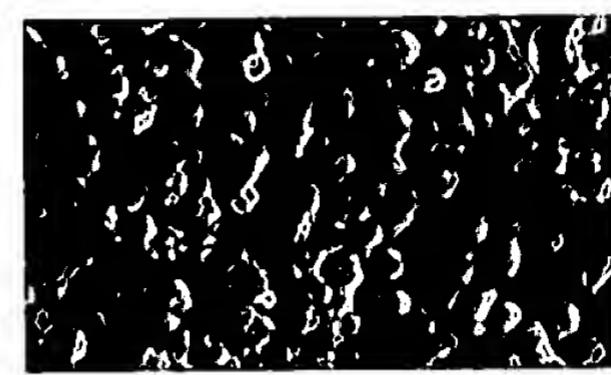


FIG. 9E_{PI}

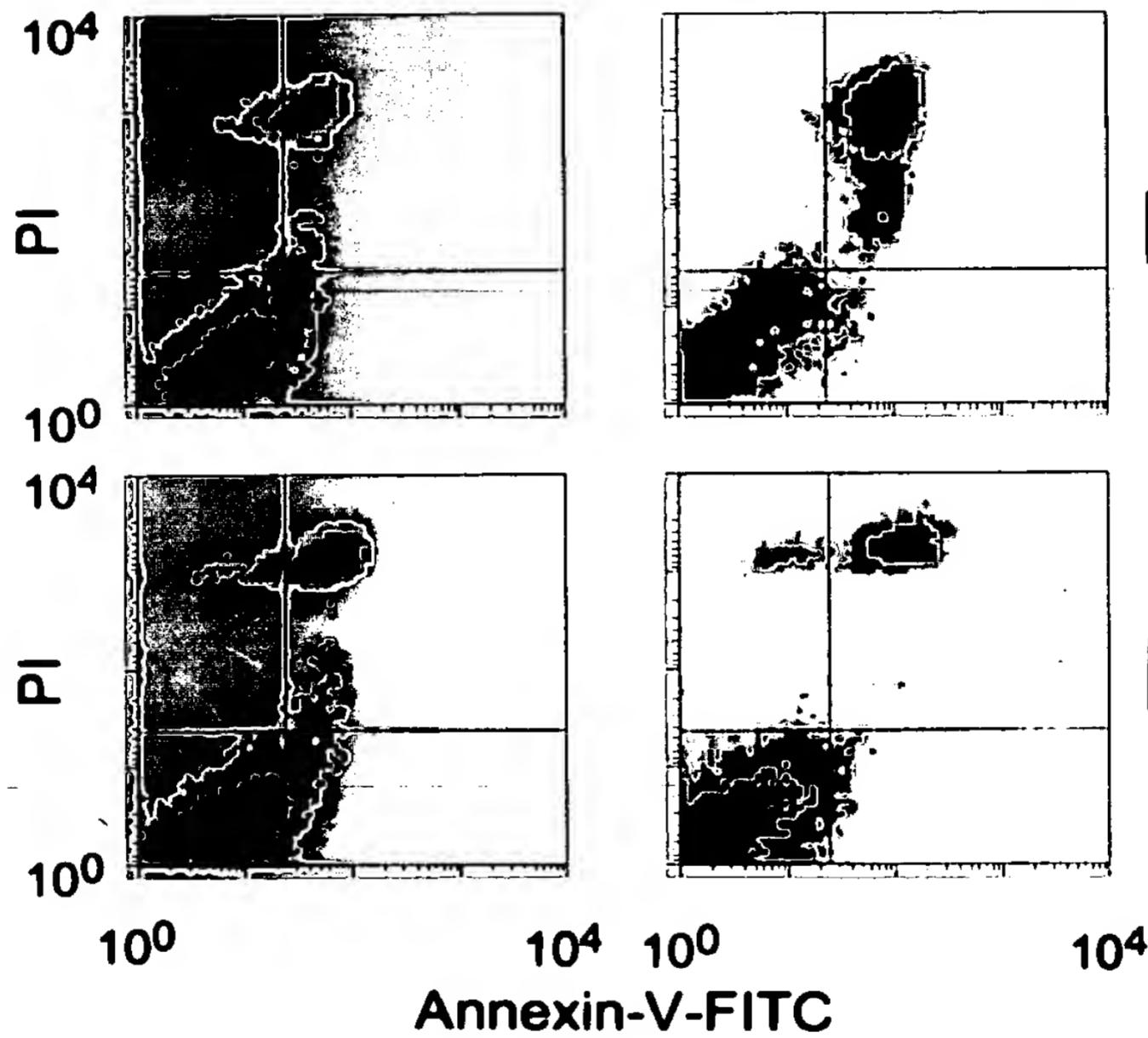


FIG. 9F

FIG. 9G_{PI}

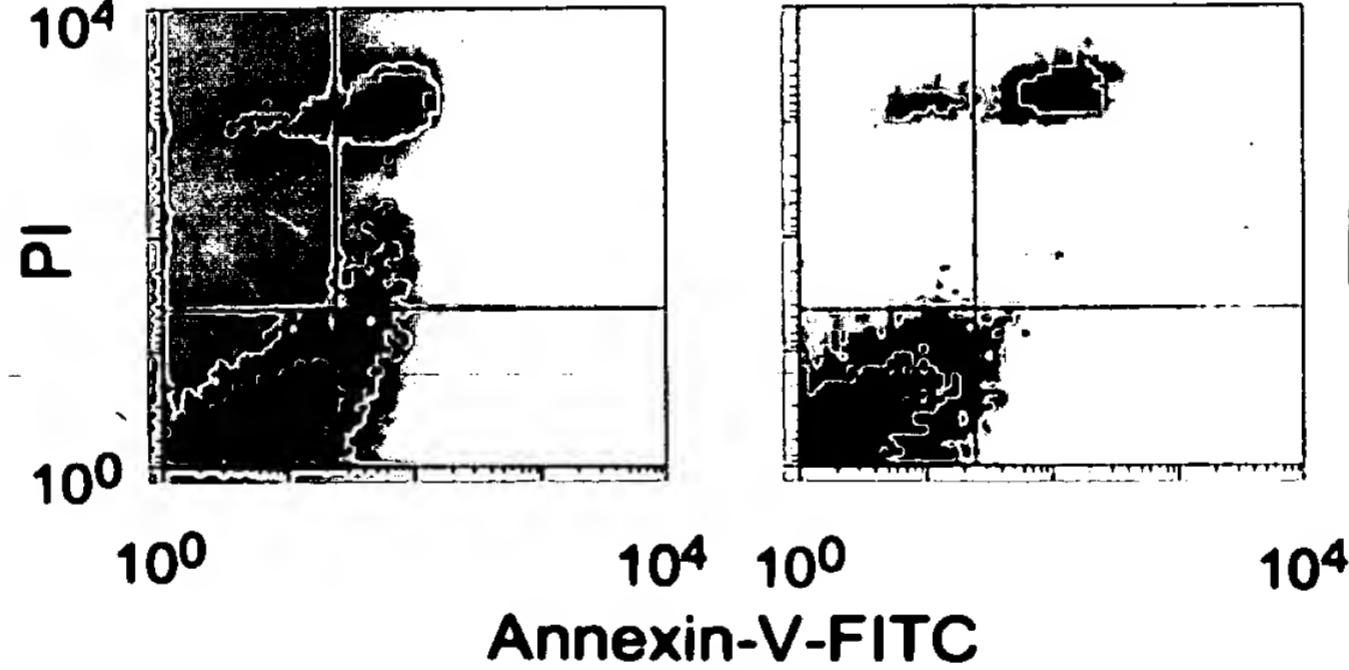


FIG. 9H

FIG. 9I

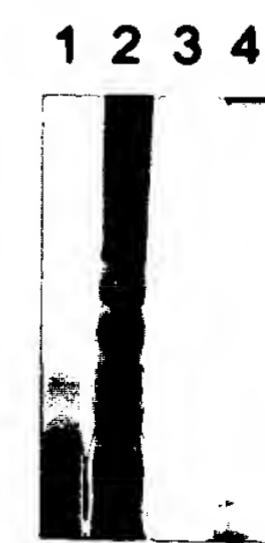
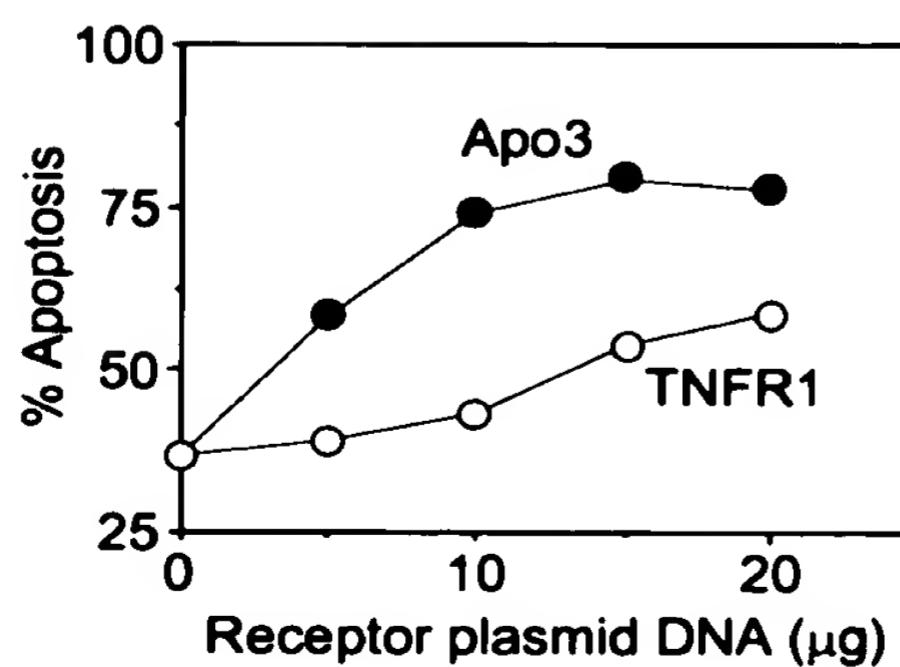


FIG. 9J